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*	SUBJ: INVESTIGATION OFFICERS REPORT - ART 342
	1. FOLLOWING IS PROVISIONAL CONCLUSION OF THE INVESTIGATION
25X1A	OFFICER INTO ART 342 ACCIDENT AND MAY BE AMENDED
	AFTER INTENSIVE EXAMINATION OF THE LEFT WING WHICH SHOULD BE
	RECOVERED LATE 9 MARCH OR EARLY 10 MARCH.
	2. THE LEFT WING FAILED AT THE ROOT JUST OUTPOARD OF THE FIRST
	WING RIB. THE UNDER WING SKIN FAILED AT THE FINGER PLATES LEAVING
	THE LOWER WING ATTACHMENT FITTINGS AND BOLTS INTACT WITH THE
	FUSELAGE. THE REPORT WING ATTACHMENTS WERE ALL SHEARED OFF OUTBOARD
	OF THE ATTACHMENT BOLTS EXCEPT THE FIRST TWO WHICH WERE FOUND WITH

3. THE MAMAINDER OF THE AIRCRAFT THEN PITCHED NOSE UP,
IMPOSING EXCESSIVE "G" ON THE STRUCTURE. THIS CAUSED THE LEFT
ENGINE BALL BAT SUPPORT STRUCTURE TO FAIL ALLOWING THE ENGINE TO
BREAK THROUGH THE LOWER FUSELAGE BULKHEADS. THE RIGHT ENGINE BALL

THE LEFT WING, THE BOLTS HAVING FAILED ON THESE.

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BAT SLIPPED OUT OF ITS BEARINGS AND THE REAR ENGINE SUPPORTING
BOLT FAILED UNDER TENSION. THUS THE ENGINE CAME COMPLETELY FREE OF

- THE RIGHT WING THEN BROKE AWAY WITH A PORTION OF THE FUSELAGE ATTACHED TO IT. THE CONTERPART OF THE FUSELAGE WAS NOW TREE.
- THE NOSE SECTION FORWARD OF THE WING LEADING EDGE AND THE TAIL SECTION AFT OF THE TRAILING EDGE CAME APART AS COMPLETE SECTIONS EXCEPT FOR THE LEFT HORIZONTAL STAPILIZER WHICH WAS EITHER BROKEN OFF DUE TO EXCESSIVE AIR LOADING OR WAS STRUCK BY THE LEFT WING AS IT CAME OFF. THIS IS THE ONLY MAJOR PROTION NOT YET LOCATED.
- ACCIDENT ALTHOUGH WITHIN THE LIMITATIONS STATED IN THE HANDBOOK WAS IN ALL PROBABILITY THE CAUSE OF THE STRUCTURAL FAILURE OF THE LEFT WING. WHEN A ROLLING MOMENT IS SUPERIMPOSED ON THE WING WHILE IT IS SUBJECTED TO AN APPLIED "G" FORCE THEN THE WING SUFFERS A TWISTING MOMENT AS WELL AS A BENDING MOMENT. THIS HAS CAUSED FAILURES IN THE PAST SEVERAL TYPES OF AIRCRAFT AND THE "G" LOADING THAT MAY BE APPLIED IS SEVERELY REDUCED WHENEVER IT IS COMBINED WITH A ROLLING MANEAUVER.
- THE FUEL PLACEMENT WAS ADVERSELY LOCATED EVEN PEFORE THE TIME OF THE ACCIDENT. WHICH COULD ONLY HAVE CONTRIBUTED TO THE UNFAVORABLE WING LOADING. THIS FUEL PLACEMENT IN THE AUXILLARY TANKS WAS REQUIRED FOR THE TYPE OF OPERATION THE PILOT WAS ENGAGED AND WAS IN ACCORDANCE WITH THE HANDBOOK.

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- 8. If 15 CONSIDERED THAT THE PILOT DID NOT EXCEED THE LIMITATIONS OF THE AIRCRAFT AS INDICATED IN THE FLIGHT STFENGTH DIAGRAMS. THESE DIAGRAMS HOWEVER, DO NOT TAKE INTO ACCOUNT ANYTHIN; EXCEPT A STRAIGHTFORWARD POSITIVELY APPLIED "G" FORCE AT WARROUS AIRCRAFT CONFIGURATIONS AND ALL UP WEIGHTS.
- THE PILOTS RIGHT FOOT WAS RIPPED IN SUCH A MANNER THAT LEADS US TO SUSPECT THIS DAMAGE TO HAVE PEEN CAUSED BY THE CANOPY LACKING LEVER ON FLECTION.
- MANEAUVERS WHILE POSITIVE "G" IS PEING APPLIED TO THE AIRCRAFT,
  PARTICULARLY AT HIGHER SPEEDS AS DETERMINED BY LAC.
- B. THE FUEL PLACEMENT NOT TO BE SUCH THAT A CONDITION ... IS ARRIVED AT WHEREBY THE AUXILIARY TANKS ARE FULL AND THE MAIN TANKS EMPTY.
- G. THAT LAC CONDUCT THE SERIES OF INSPECTIONS THEY DEEM ADVISABLE.
- THE RIGHT HAND CANOPY LOCKING LEVER BE RELOCATED SO THAT WHEN THE CANOPY IS JETTISONED THE LEVER DOES NOT ROTATE TO THE DOWNWARD POSITION THUS CAUSING A HAZARD TO SAFE EJECTION.
- DISCONNECT SYSTEM SUCH THAT THE PILOTS CLOTHING IS NOT SUBJECTED TO BURN DAMAGE.
- 11. REQUEST HOTRS MAKE FURTHER DISTRIBUTION OF THIS REPORT AS DESIRED.

END OF MESSAGE